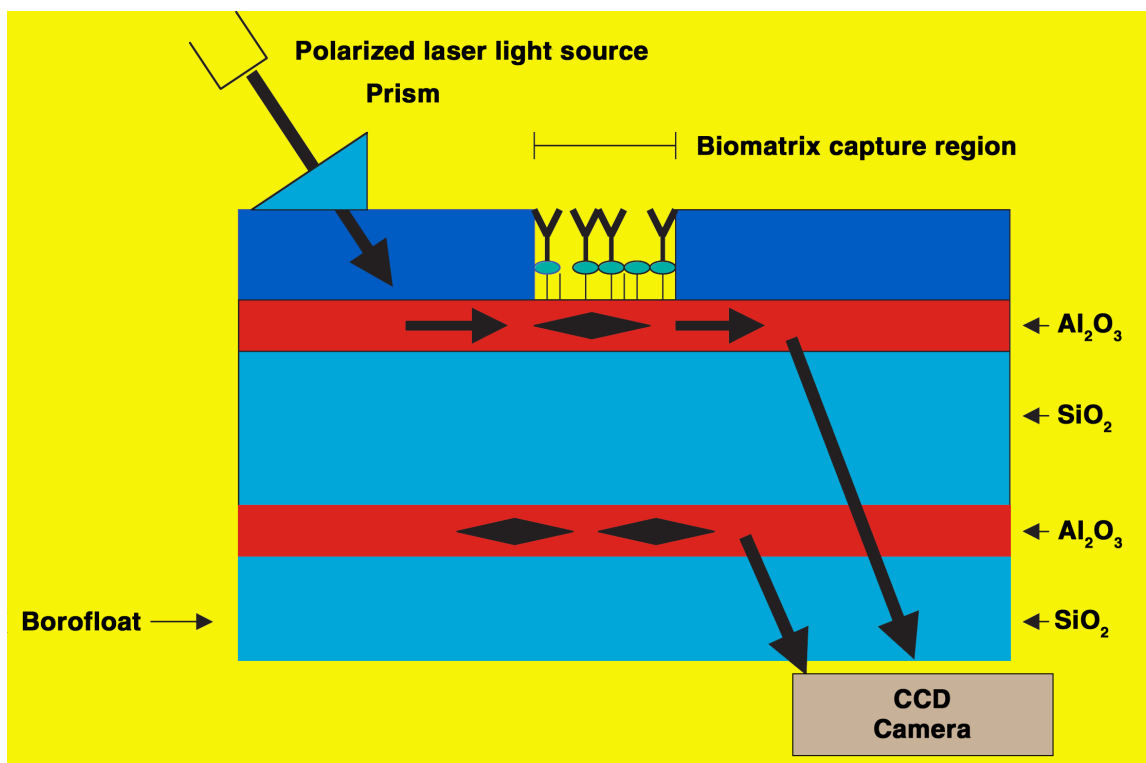


Optical Wave Guide Biosensor



NRL, in collaboration with Loats Associates, Inc, is developing a highly portable device capable of detecting DNA or protein antigen by plasmon resonance. The device will utilize a capture matrix coupled with either capture antibody or nucleic acid sequences attached to Al_2O_3 wafer. Antigen (or DNA sequences) in samples exposed to the capture sequence are detected by energy transfer to an adjacent Al_2O_3 layer.

Advantages/Features Include:

- Rapid/sensitive detection
- Easy to operate
- Highly portable

Applications Include:

- Environmental Monitoring
- Clinical Diagnostics

Point of Contact

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